

FILE 'HOME' ENTERED AT 16:46:43 ON 14 MAY 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:46:51 ON 14 MAY 2003

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STRUCTURE FILE UPDATES: 13 MAY 2003 HIGHEST RN 514787-08-7

DICTIONARY FILE UPDATES: 13 MAY 2003 HIGHEST RN 514787-08-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s (0.01-2)/Li and (1-2)/Co and 1/P and 4/O

89785 (0.01-2)/LI

298916 (1-2)/CO

828392 1/P

3066347 4/O

L1 163 (0.01-2)/LI AND (1-2)/CO AND 1/P AND 4/O

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.68

17.89

FILE 'CAPLUS' ENTERED AT 16:47:58 ON 14 MAY 2003

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FILE COVERS 1907 - 14 May 2003 VOL 138 ISS 20

FILE LAST UPDATED: 13 May 2003 (20030513/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l1

L2 89 L1

=> s l2 and cathode

147752 CATHODE

L3 42 L2 AND CATHODE

=> s l2 and battery

98904 BATTERY

L4 45 L2 AND BATTERY

=> d l4 1-45 ibib

L4 ANSWER 1 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:97868 CAPLUS

DOCUMENT NUMBER: 138:140078

TITLE: Alkali/transition metal halo- and hydroxy-phosphates and related electrode active materials

INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid; Swoyer, Jeffrey L.

PATENT ASSIGNEE(S): UK

SOURCE: U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U.S. 6,387,568.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| US 2003027049 | A1 | 20030206 | US 2001-14822 | 20011026 |
| US 6387568 | B1 | 20020514 | US 2000-559861 | 20000427 |
| US 2002168573 | A1 | 20021114 | US 2002-133091 | 20020426 |
| WO 2003038930 | A2 | 20030508 | WO 2002-US33510 | 20021018 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-559861 A2 20000427
US 2001-14822 A 20011026

L4 ANSWER 2 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:92339 CAPLUS

DOCUMENT NUMBER: 138:125008

TITLE: Cathode materials for secondary lithium batteries

INVENTOR(S): Armand, Michel; Goodenough, John B.; Padhi, Akshaya K.; Nanjundaswamy, Kirakodu S.; Masquelier, Christian

PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA

SOURCE: U.S., 21 pp., Cont.-in-part of U.S. 5,910,382.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|--|-----------------|-------------|
| US 6514640 | B1 | 20030204 | US 1997-998264 | 19971224 |
| US 5910382 | A | 19990608 | US 1997-840523 | 19970421 |
| US 6391493 | B1 | 20020521 | US 1999-298080 | 19990423 |
| US 2003082454 | A1 | 20030501 | US 2002-307346 | 20021202 |
| PRIORITY APPLN. INFO.: | | | US 1996-16060P | P 19960423 |
| | | | US 1996-32346P | P 19961204 |
| | | | US 1997-840523 | A2 19970421 |
| | | | US 1997-998264 | A1 19971224 |
| REFERENCE COUNT: | 9 | THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | |

L4 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2003:42884 CAPLUS
 DOCUMENT NUMBER: 138:92874
 TITLE: Alkali/transition metal halo- and hydroxy-phosphates and related electrode active materials
 INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid; Swoyer, Jeffery L.
 PATENT ASSIGNEE(S): UK
 SOURCE: U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U. S. 6,387,568.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 2003013019 | A1 | 20030116 | US 2001-45685 | 20011107 |
| US 6387568 | B1 | 20020514 | US 2000-559861 | 20000427 |
| US 2002168573 | A1 | 20021114 | US 2002-133091 | 20020426 |
| PRIORITY APPLN. INFO.: | | | US 2000-559861 | A2 20000427 |

L4 ANSWER 4 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:928099 CAPLUS
 DOCUMENT NUMBER: 138:6481
 TITLE: Process for producing carbon-containing lithium-iron composite phosphorus oxide for lithium secondary battery cathode active material
 INVENTOR(S): Kohzaki, Masao; Takeuchi, Youji; Ukyo, Yoshio
 PATENT ASSIGNEE(S): Kabushiki Kaisha Toyota Chuo Kenkyusho, Japan
 SOURCE: U.S. Pat. Appl. Publ., 11 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| US 2002182497 | A1 | 20021205 | US 2002-143946 | 20020514 |
| JP 2003034534 | A2 | 20030207 | JP 2002-132603 | 20020508 |
| PRIORITY APPLN. INFO.: | | | JP 2001-145396 | A 20010515 |

L4 ANSWER 5 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:927780 CAPLUS
 DOCUMENT NUMBER: 138:26878
 TITLE: Anode and cathode materials for sodium ion batteries
 INVENTOR(S): Barker, Jeremy; Yazid, Saidi M.; Swoyer, Jeffrey L.
 PATENT ASSIGNEE(S): Valence Technology, Inc., USA
 SOURCE: PCT Int. Appl., 77 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2002097907 | A2 | 20021205 | WO 2002-US10775 | 20020404 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2002192553 | A1 | 20021219 | US 2002-115787 | 20020404 |
| PRIORITY APPLN. INFO.: | | | US 2001-283560P | P 20010406 |

L4 ANSWER 6 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:904470 CAPLUS
DOCUMENT NUMBER: 137:372594
TITLE: Lithium transition-metal phosphate powder for rechargeable batteries
PATENT ASSIGNEE(S): N.V. Umicore S.A., Belg.; Centre National de la Recherche Scientifique
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|--|-----------------|------------|
| EP 1261050 | A1 | 20021127 | EP 2001-401374 | 20010523 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| WO 2002099913 | A1 | 20021212 | WO 2002-EP5714 | 20020522 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRIORITY APPLN. INFO.: | | | EP 2001-401374 | A 20010523 |
| REFERENCE COUNT: 5 | | THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | |

L4 ANSWER 7 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:791980 CAPLUS
DOCUMENT NUMBER: 137:313504
TITLE: Preparation and use of binary, ternary, and quaternary lithium iron phosphates for use as cathodes in lithium secondary batteries
INVENTOR(S): Hemmer, Reinhard P.; Arnold, Giesela; Vogler, Christian; Wohlfahrt-Mehrens, Margret
PATENT ASSIGNEE(S): Zentrum fuer Sonnenenergie- und Wasserstoff-Forschung

SOURCE: Baden-Wuerttemberg Gemeinnuetzige Stiftung, Germany
Ger. Offen., 2 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|--------------------|----------|
| DE 10117904 | A1 | 20021017 | DE 2001-10117904 | 20010410 |
| WO 2002083555 | A2 | 20021024 | WO 2002-DE1323 | 20020410 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRIORITY APPLN. INFO.: | | | DE 2001-10117904 A | 20010410 |

L4 ANSWER 8 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:752479 CAPLUS
DOCUMENT NUMBER: 137:281841
TITLE: Cathode active material for nonaqueous electrolyte
secondary **battery**
INVENTOR(S): Morishima, Hideaki; Yamada, Shuji; Kanai, Hideyuki
PATENT ASSIGNEE(S): Kabushiki Kaisha Toshiba, Japan
SOURCE: Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| EP 1246290 | A2 | 20021002 | EP 2002-252168 | 20020326 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| US 2003054253 | A1 | 20030320 | US 2002-102705 | 20020322 |
| JP 2002358965 | A2 | 20021213 | JP 2002-87051 | 20020326 |
| PRIORITY APPLN. INFO.: | | | JP 2001-87038 A | 20010326 |

L4 ANSWER 9 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:663332 CAPLUS
DOCUMENT NUMBER: 138:41900
TITLE: Improvement of the electrochemical performance of
LiCoPO₄ 5 V material using a novel synthesis
AUTHOR(S): Lloris, J. M.; Perez Vicente, C.; Tirado, J. L.
CORPORATE SOURCE: Laboratorio de Quimica Inorganica, Universidad de
Cordoba, Cordoba, 14071, Spain
SOURCE: Electrochemical and Solid-State Letters (2002), 5(10),
A234-A237
CODEN: ESLEF6; ISSN: 1099-0062
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:573514 CAPLUS
DOCUMENT NUMBER: 137:143023
TITLE: secondary nonaqueous electrolyte **battery**
INVENTOR(S): Nakamura, Masaya; Saito, Hirohiko
PATENT ASSIGNEE(S): Denso Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002216770 | A2 | 20020802 | JP 2001-13581 | 20010122 |
| PRIORITY APPLN. INFO.: | | | JP 2001-13581 | 20010122 |

L4 ANSWER 11 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:573500 CAPLUS
DOCUMENT NUMBER: 137:143013
TITLE: Secondary nonaqueous-electrolyte **battery**
with cathode containing phosphoric acid compound
INVENTOR(S): Nakamura, Masaya; Saito, Hirohiko
PATENT ASSIGNEE(S): Denso Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002216755 | A2 | 20020802 | JP 2001-13594 | 20010122 |
| PRIORITY APPLN. INFO.: | | | JP 2001-13594 | 20010122 |

L4 ANSWER 12 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:518137 CAPLUS
DOCUMENT NUMBER: 137:96241
TITLE: Powdery cathode active mass including olivine
structure and secondary nonaqueous electrolyte lithium
battery using it
INVENTOR(S): Nakamura, Masaya; Saito, Hirohiko
PATENT ASSIGNEE(S): Denso Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002198050 | A2 | 20020712 | JP 2000-397537 | 20001227 |
| PRIORITY APPLN. INFO.: | | | JP 2000-397537 | 20001227 |

L4 ANSWER 13 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:428819 CAPLUS
DOCUMENT NUMBER: 137:8642
TITLE: Methods of making lithium metal compounds useful as
cathode active materials in batteries
INVENTOR(S): Barker, Jeremy; Yazid, Saidi M.; Swoyer, Jeffrey L.
PATENT ASSIGNEE(S): Valence Technology, Inc., USA
SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|-------------|
| WO 2002044084 | A2 | 20020606 | WO 2001-US43633 | 20011119 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| AU 2002017799 | A5 | 20020611 | AU 2002-17799 | 20011119 |
| PRIORITY APPLN. INFO.: | | | US 2000-724085 | A1 20001128 |
| | | | WO 2001-US43633 | W 20011119 |

L4 ANSWER 14 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:292205 CAPLUS
DOCUMENT NUMBER: 136:328153
TITLE: Nonaqueous electrolyte **battery** containing complex lithium oxide positive electrode with olivine crystal structure
INVENTOR(S): Fukushima, Gen; Hosoya, Mamoru; Hisayama, Junji; Takahashi, Kimio; Sato, Atsushi; Okawa, Takeshi
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002117903 | A2 | 20020419 | JP 2000-306878 | 20001005 |
| PRIORITY APPLN. INFO.: | | | JP 2000-306878 | 20001005 |

L4 ANSWER 15 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:292166 CAPLUS
DOCUMENT NUMBER: 136:328120
TITLE: Nonaqueous electrolyte secondary **battery** with lithium complex oxide positive electrode mix additionally containing lithium carbonate for improved charge-discharge cycle characteristic at high temperature
INVENTOR(S): Hosoya, Mamoru; Fukushima, Gen
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002117843 | A2 | 20020419 | JP 2000-306875 | 20001005 |
| PRIORITY APPLN. INFO.: | | | JP 2000-306875 | 20001005 |

L4 ANSWER 16 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:272915 CAPLUS

DOCUMENT NUMBER: 136:297401

TITLE: Nonaqueous electrolyte **battery** with high discharge capacity

INVENTOR(S): Sakai, Hidecki; Fukushima, Yuzuru; Kuyama, Junji; Hosoya, Mamoru

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1195838 | A2 | 20020410 | EP 2001-123895 | 20011005 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002117908 | A2 | 20020419 | JP 2000-308303 | 20001006 |
| CN 1348230 | A | 20020508 | CN 2001-130350 | 20010930 |
| US 2002150816 | A1 | 20021017 | US 2001-971912 | 20011005 |
| PRIORITY APPLN. INFO.: | | | JP 2000-308303 | A 20001006 |

L4 ANSWER 17 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:272914 CAPLUS

DOCUMENT NUMBER: 136:297400

TITLE: Nonaqueous electrolyte secondary **battery** using olivinic lithium phosphorus oxide cathode active material

INVENTOR(S): Okawa, Tsuyoshi; Hosoya, Mamoru; Kuyama, Junji; Fukushima, Yuzuru

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1195837 | A2 | 20020410 | EP 2001-123893 | 20011005 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002117907 | A2 | 20020419 | JP 2000-308302 | 20001006 |
| CN 1350342 | A | 20020522 | CN 2001-139303 | 20010930 |
| US 2002106563 | A1 | 20020808 | US 2001-972375 | 20011005 |
| PRIORITY APPLN. INFO.: | | | JP 2000-308302 | A 20001006 |

L4 ANSWER 18 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:272913 CAPLUS

DOCUMENT NUMBER: 136:297399

TITLE: Nonaqueous electrolyte secondary **battery** with a compound of an olivinic structure as a cathode active material

INVENTOR(S): Okawa, Tsuyoshi; Hosoya, Mamoru; Kuyama, Junji; Fukushima, Yuzuru

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1195836 | A2 | 20020410 | EP 2001-123892 | 20011005 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002117833 | A2 | 20020419 | JP 2000-308301 | 20001006 |
| CN 1349266 | A | 20020515 | CN 2001-142412 | 20010930 |
| US 2002106564 | A1 | 20020808 | US 2001-972395 | 20011005 |
| PRIORITY APPLN. INFO.: | | | JP 2000-308301 | A 20001006 |

L4 ANSWER 19 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:272912 CAPLUS
DOCUMENT NUMBER: 136:297398
TITLE: Cathode and anode materials for solid nonaqueous electrolyte **battery**
INVENTOR(S): Takahashi, Kimio; Hosoya, Mamoru; Miyake, Masami
PATENT ASSIGNEE(S): Sony Corporation, Japan
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1195835 | A2 | 20020410 | EP 2001-123773 | 20011004 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002117902 | A2 | 20020419 | JP 2000-306877 | 20001005 |
| CN 1348231 | A | 20020508 | CN 2001-138524 | 20010930 |
| PRIORITY APPLN. INFO.: | | | JP 2000-306877 | A 20001005 |

L4 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:272909 CAPLUS
DOCUMENT NUMBER: 136:297395
TITLE: Method for fabrication of cathode active material and a nonaqueous electrolyte **battery**
INVENTOR(S): Hosoya, Mamoru; Fukushima, Yuzuru; Sakai, Hidecki; Kuyama, Junji
PATENT ASSIGNEE(S): Sony Corporation, Japan
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1195827 | A2 | 20020410 | EP 2001-123894 | 20011005 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002117848 | A2 | 20020419 | JP 2000-308300 | 20001006 |
| JP 2002117849 | A2 | 20020419 | JP 2000-308313 | 20001006 |
| US 2002124386 | A1 | 20020912 | US 2001-966918 | 20010928 |
| CN 1360353 | A | 20020724 | CN 2001-138169 | 20010930 |
| PRIORITY APPLN. INFO.: | | | JP 2000-308300 | A 20001006 |
| | | | JP 2000-308313 | A 20001006 |

L4 ANSWER 21 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:272908 CAPLUS
DOCUMENT NUMBER: 136:297394
TITLE: Solid electrolyte cell
INVENTOR(S): Goto, Shuji; Hosoya, Mamoru; Endo, Takahiro
PATENT ASSIGNEE(S): Sony Corporation, Japan
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|----------|
| EP 1195826 | A2 | 20020410 | EP 2001-123774 | 20011004 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002117844 | A2 | 20020419 | JP 2000-306876 | 20001005 |
| US 2002094481 | A1 | 20020718 | US 2001-966864 | 20010928 |
| CN 1349273 | A | 20020515 | CN 2001-139323 | 20010930 |
| PRIORITY APPLN. INFO.: | | | JP 2000-306876 A | 20001005 |

L4 ANSWER 22 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:256757 CAPLUS
DOCUMENT NUMBER: 136:282003
TITLE: Lithium-based cathode active materials for rechargeable lithium **battery** and preparation thereof
INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid; Swoyer, Jeffrey L.
PATENT ASSIGNEE(S): UK
SOURCE: U.S. Pat. Appl. Publ., 39 pp., Cont.-in-part of U. S. Ser. No. 484,799.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-------------------|----------|
| US 2002039687 | A1 | 20020404 | US 2001-908480 | 20010718 |
| WO 2001054212 | A1 | 20010726 | WO 2000-US35302 | 20001222 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1309021 | A2 | 20030507 | EP 2003-2687 | 20001222 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| PRIORITY APPLN. INFO.: | | | US 2000-484799 A2 | 20000118 |
| | | | WO 2000-US35302 W | 20001222 |
| | | | EP 2000-993800 A3 | 20001222 |

L4 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:210458 CAPLUS
DOCUMENT NUMBER: 137:96186
TITLE: Characterization of phospho-olivines as materials for Li-ion cell cathodes

AUTHOR(S): Piana, M.; Arrabito, M.; Bodoardo, S.; D'Epifanio, A.;
 CORPORATE SOURCE: Satolli, D.; Croce, F.; Scrosati, B.
 SOURCE: Dipartimento di Scienza dei Materiali ed Ingegneria
 Chimica, Politecnico di Torino, Turin, 10129, Italy
 PUBLISHER: Ionics (2002), 8(1 & 2), 17-26
 DOCUMENT TYPE: CODEN: IONIFA; ISSN: 0947-7047
 LANGUAGE: Institute for Ionics
 REFERENCE COUNT: Journal
 23 English
 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:796402 CAPLUS
 DOCUMENT NUMBER: 135:346863
 TITLE: Cathode active material for nonaqueous electrolyte
 battery
 INVENTOR(S): Li, Guohua; Yamada, Atsuo
 PATENT ASSIGNEE(S): Sony Corporation, Japan
 SOURCE: Eur. Pat. Appl., 47 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| EP 1150367 | A2 | 20011031 | EP 2001-109945 | 20010424 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2001307731 | A2 | 20011102 | JP 2000-128999 | 20000425 |
| JP 2001307732 | A2 | 20011102 | JP 2000-129000 | 20000425 |
| CA 2344903 | AA | 20011025 | CA 2001-2344903 | 20010423 |
| CN 1322023 | A | 20011114 | CN 2001-121243 | 20010425 |
| US 2001055718 | A1 | 20011227 | US 2001-842483 | 20010425 |
| PRIORITY APPLN. INFO.: | | | JP 2000-128999 | A 20000425 |
| | | | JP 2000-129000 | A 20000425 |

L4 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:521189 CAPLUS
 DOCUMENT NUMBER: 135:109692
 TITLE: Secondary nonaqueous electrolyte lithium
 battery using improved anode and cathode
 materials
 INVENTOR(S): Iguchi, Takaaki; Kuratomi, Junichi; Kuwana, Koji
 PATENT ASSIGNEE(S): Yuasa Battery Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2001196061 | A2 | 20010719 | JP 2000-6070 | 20000111 |
| PRIORITY APPLN. INFO.: | | | JP 2000-6070 | 20000111 |

L4 ANSWER 26 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:225610 CAPLUS
 DOCUMENT NUMBER: 134:254632
 TITLE: Secondary lithium batteries using lithium iron
 phosphate cathodes

INVENTOR(S): Takahashi, Masaya; Tobishima, Shinichi; Takei, Koji;
Sakurai, Yoji
PATENT ASSIGNEE(S): Nippon Telegraph and Telephone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2001085010 | A2 | 20010330 | JP 1999-261394 | 19990916 |
| PRIORITY APPLN. INFO.: | | | JP 1999-261394 | 19990916 |

L4 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:192597 CAPLUS
DOCUMENT NUMBER: 134:210598
TITLE: Preparation of lithium-containing phosphates for
battery use
INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid
PATENT ASSIGNEE(S): Valence Technology, Inc., USA
SOURCE: U.S., 13 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 6203946 | B1 | 20010320 | US 1998-204944 | 19981203 |
| US 2001021472 | A1 | 20010913 | US 2001-776843 | 20010205 |
| PRIORITY APPLN. INFO.: | | | US 1996-717979 | A1 19960923 |
| | | | WO 1997-US15544 | A1 19970904 |
| | | | US 1998-204944 | A1 19981203 |

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:134012 CAPLUS
DOCUMENT NUMBER: 134:181076
TITLE: Solid state secondary lithium batteries
INVENTOR(S): Takada, Kazunori; Okada, Yumiko
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2001052733 | A2 | 20010223 | JP 1999-222436 | 19990805 |
| PRIORITY APPLN. INFO.: | | | JP 1999-222436 | 19990805 |

L4 ANSWER 29 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:97142 CAPLUS
DOCUMENT NUMBER: 134:283187
TITLE: Cathodes properties of phospho-olivine for lithium
secondary batteries
AUTHOR(S): Okada, Shigeto; Sawa, Shoichiro; Egashira, Minato;
Yamaki, Junichi

CORPORATE SOURCE: Institute of Advanced Material Study, Kyushu University, Japan
 SOURCE: Kyushu Daigaku Kino Busshitsu Kagaku Kenkyusho Hokoku (2000), 14(2), 133-137
 CODEN: KDBHFS; ISSN: 0914-3793
 PUBLISHER: Kyushu Daigaku Kino Busshitsu Kagaku Kenkyusho
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 30 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2000:774123 CAPLUS
 DOCUMENT NUMBER: 133:352634
 TITLE: Electrode materials having increased surface conductivity
 INVENTOR(S): Ravet, Nathalie; Besner, Simon; Simoneau, Martin; Vallee, Alain; Armand, Michel; Magnan, Jean-francois
 PATENT ASSIGNEE(S): Hydro-Quebec, Can.
 SOURCE: Eur. Pat. Appl., 22 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-------------------|----------|
| EP 1049182 | A2 | 20001102 | EP 2000-401207 | 20000502 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| CA 2307119 | AA | 20001030 | CA 2000-2307119 | 20000428 |
| JP 2001015111 | A2 | 20010119 | JP 2000-132779 | 20000501 |
| US 2002195591 | A1 | 20021226 | US 2002-175794 | 20020621 |
| PRIORITY APPLN. INFO.: | | | CA 1999-2270771 A | 19990430 |
| | | | US 2000-560572 B1 | 20000428 |

L4 ANSWER 31 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2000:398840 CAPLUS
 DOCUMENT NUMBER: 133:61274
 TITLE: Olivine LiMePO₄ (Me: Co, Cu) as 4.8 V and 2 V positive electrodes materials for lithium batteries
 AUTHOR(S): Amine, K.; Yasuda, H.; Yamachi, M.
 CORPORATE SOURCE: Chemical Technology Division, Argonne National Laboratory, Argonne, 60439-4837, Fr.
 SOURCE: Proceedings - Electrochemical Society (2000), 99-25, 311-325
 CODEN: PESODO; ISSN: 0161-6374
 PUBLISHER: Electrochemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 32 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2000:182737 CAPLUS
 DOCUMENT NUMBER: 132:210149
 TITLE: Olivine LiCoPO₄ as 4.8 V electrode material for lithium batteries
 AUTHOR(S): Amine, K.; Yasuda, H.; Yamachi, M.
 CORPORATE SOURCE: Chemical Technology Division, Argonne National Laboratory, Argonne, IL, 60439-4837, USA
 SOURCE: Electrochemical and Solid-State Letters (2000), 3(4), 178-179

PUBLISHER: CODEN: ESLEF6; ISSN: 1099-0062
DOCUMENT TYPE: Electrochemical Society
LANGUAGE: Journal
REFERENCE COUNT: English
17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 33 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:498727 CAPLUS
DOCUMENT NUMBER: 131:132296
TITLE: Secondary lithium batteries
INVENTOR(S): Takata, Kazunori; Fujino, Makoto; Iwamoto, Kazuya;
Kondo, Shigeo
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| JP 11219722 | A2 | 19990810 | JP 1998-21803 | 19980203 |
| EP 933827 | A1 | 19990804 | EP 1999-300758 | 19990202 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| US 6322929 | B1 | 20011127 | US 1999-240689 | 19990202 |
| PRIORITY APPLN. INFO.: | | | JP 1998-21803 | A 19980203 |

L4 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:72205 CAPLUS
DOCUMENT NUMBER: 130:170706
TITLE: Lithium mixed oxide cathode active materials, cathodes
using the materials, and lithium batteries using them
INVENTOR(S): Amine, Khalil
PATENT ASSIGNEE(S): Japan Storage Battery Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| JP 11025983 | A2 | 19990129 | JP 1997-215424 | 19970704 |
| US 6319632 | B1 | 20011120 | US 1999-448504 | 19991124 |
| US 2002039681 | A1 | 20020404 | US 2001-955906 | 20010920 |
| PRIORITY APPLN. INFO.: | | | JP 1997-215424 | A 19970704 |
| | | | US 1999-448504 | A3 19991124 |

L4 ANSWER 35 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:56858 CAPLUS
DOCUMENT NUMBER: 130:156101
TITLE: Secondary lithium batteries inhibiting lithium
dendrite generation and electronic apparatus using the
batteries
INVENTOR(S): Ikgawa, Akiko; Tsuruoka, Shigeo; Takeuchi, Seiji;
Yoshikawa, Masanori; Muranaka, Kiyoshi
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 11016571 | A2 | 19990122 | JP 1997-165588 | 19970623 |
| PRIORITY APPLN. INFO.: | | | JP 1997-165588 | 19970623 |

L4 ANSWER 36 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:596036 CAPLUS
DOCUMENT NUMBER: 129:205207
TITLE: Secondary lithium batteries with lithium and magnesium containing oxide cathodes
INVENTOR(S): Igawa, Akiko; Tsuruoka, Shigeo; Yoshikawa, Masanori; Muranaka, Kiyoshi; Komatsu, Yoshimi; Yamauchi, Shuko
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 10241691 | A2 | 19980911 | JP 1997-354358 | 19971224 |
| PRIORITY APPLN. INFO.: | | | JP 1996-343041 | 19961224 |

L4 ANSWER 37 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:399649 CAPLUS
DOCUMENT NUMBER: 127:37233
TITLE: Nonaqueous electrolyte secondary batteries with alkali metal-containing phosphate cathodes
INVENTOR(S): Okada, Shigeto; Arai, So; Masashiro, Takahisa; Otsuka, Hideaki; Sakurai, Yoji; Yamaki, Junichi
PATENT ASSIGNEE(S): Nippon Telegraph and Telephone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 09134724 | A2 | 19970520 | JP 1995-311698 | 19951107 |
| PRIORITY APPLN. INFO.: | | | JP 1995-311698 | 19951107 |

L4 ANSWER 38 OF 45 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:580063 CAPLUS
DOCUMENT NUMBER: 125:200746
TITLE: Secondary lithium batteries and their cathodes
INVENTOR(S): Marumoto, Mitsuhiro; Takada, Yoshinori; Kizu, Kenichi
PATENT ASSIGNEE(S): Mitsubishi Cable Ind Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

JP 08171938 A2 19960702 JP 1994-334030 19941215
PRIORITY APPLN. INFO.: JP 1994-334030 19941215

L4 ANSWER 39 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:721387 CAPLUS
DOCUMENT NUMBER: 123:88488
TITLE: Cathode materials for lithium batteries and their manufacture
INVENTOR(S): Kamauchi, Masahiro; Takada, Yoshinori
PATENT ASSIGNEE(S): Mitsubishi Cable Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 9512900 | A1 | 19950511 | WO 1993-JP1686 | 19931117 |
| W: US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| JP 07130357 | A2 | 19950519 | JP 1993-297405 | 19931102 |
| JP 2966261 | B2 | 19991025 | | |
| EP 680106 | A1 | 19951102 | EP 1994-900277 | 19931117 |
| R: DE, FR, GB | | | | |
| US 5614334 | A | 19970325 | US 1995-481257 | 19950630 |
| PRIORITY APPLN. INFO.: | | | JP 1993-297405 | 19931102 |
| | | | WO 1993-JP1686 | 19931117 |

L4 ANSWER 40 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:459524 CAPLUS
DOCUMENT NUMBER: 122:192402
TITLE: Secondary nonaqueous batteries with lithium intercalating metal oxide anodes
INVENTOR(S): Mishima, Masayuki
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 06318458 | A2 | 19941115 | JP 1993-106978 | 19930507 |
| PRIORITY APPLN. INFO.: | | | JP 1993-106978 | 19930507 |

L4 ANSWER 41 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:416344 CAPLUS
DOCUMENT NUMBER: 122:165555
TITLE: Secondary nonaqueous-electrolyte **battery**.
INVENTOR(S): Miyasaka, Tsutomu
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

| | | | | |
|------------------------|----|----------|----------------|------------|
| EP 630064 | A1 | 19941221 | EP 1994-106426 | 19940425 |
| EP 630064 | B1 | 19980715 | | |
| R: DE, FR, GB | | | | |
| JP 06310143 | A2 | 19941104 | JP 1993-102931 | 19930428 |
| JP 3230893 | B2 | 20011119 | | |
| JP 07014579 | A2 | 19950117 | JP 1993-155426 | 19930625 |
| JP 07029603 | A2 | 19950131 | JP 1993-174380 | 19930714 |
| US 5478674 | A | 19951226 | US 1994-233929 | 19940428 |
| PRIORITY APPLN. INFO.: | | | JP 1993-102931 | A 19930428 |
| | | | JP 1993-155426 | A 19930625 |
| | | | JP 1993-174380 | A 19930714 |

L4 ANSWER 42 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1994:704635 CAPLUS
 DOCUMENT NUMBER: 121:304635
 TITLE: Cathodes for lithium batteries
 INVENTOR(S): Kamauchi, Masaharu
 PATENT ASSIGNEE(S): Mitsubishi Cable Ind Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| JP 06223832 | A2 | 19940812 | JP 1993-27644 | 19930121 |
| JP 3266353 | B2 | 20020318 | | |
| PRIORITY APPLN. INFO.: | | | JP 1993-27644 | 19930121 |

L4 ANSWER 43 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1994:222477 CAPLUS
 DOCUMENT NUMBER: 120:222477
 TITLE: Secondary lithium **battery**
 INVENTOR(S): Kamauchi, Masahiro; Soejima, Hiroshi; Kubota, Shuji;
 Sasaki, Kouzou
 PATENT ASSIGNEE(S): Mitsubishi Cable Industries, Ltd., Japan
 SOURCE: Can. Pat. Appl., 66 pp.
 CODEN: CPXXEB
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| CA 2096386 | AA | 19931119 | CA 1993-2096386 | 19930517 |
| JP 06275277 | A2 | 19940930 | JP 1993-116240 | 19930518 |
| US 5538814 | A | 19960723 | US 1995-374998 | 19950118 |
| US 5705296 | A | 19980106 | US 1995-473973 | 19950607 |
| PRIORITY APPLN. INFO.: | | | JP 1992-124594 | 19920518 |
| | | | JP 1992-223068 | 19920821 |
| | | | JP 1992-258537 | 19920928 |
| | | | JP 1992-271944 | 19921009 |
| | | | JP 1992-271945 | 19921009 |
| | | | JP 1992-271943 | 19921009 |
| | | | JP 1992-271947 | 19921009 |
| | | | JP 1993-27646 | 19930121 |
| | | | US 1993-61240 | 19930517 |
| | | | US 1995-374998 | 19950118 |

L4 ANSWER 44 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1994:168824 CAPLUS

DOCUMENT NUMBER: 120:168824
 TITLE: Secondary lithium **battery**
 INVENTOR(S): Kamauchi, Masahiro; Soejima, Hiroshi; Kubota, Shuji;
 Sasaki, Kouzou
 PATENT ASSIGNEE(S): Mitsubishi Cable Industries, Ltd., Japan
 SOURCE: Eur. Pat. Appl., 28 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| EP 571858 | A1 | 19931201 | EP 1993-108004 | 19930517 |
| EP 571858 | B1 | 19960814 | | |
| R: DE, FR, GB | | | | |
| JP 06275277 | A2 | 19940930 | JP 1993-116240 | 19930518 |
| US 5538814 | A | 19960723 | US 1995-374998 | 19950118 |
| US 5705296 | A | 19980106 | US 1995-473973 | 19950607 |
| PRIORITY APPLN. INFO.: | | | JP 1992-124594 | 19920518 |
| | | | JP 1992-223068 | 19920821 |
| | | | JP 1992-258537 | 19920928 |
| | | | JP 1992-271943 | 19921009 |
| | | | JP 1992-271944 | 19921009 |
| | | | JP 1992-271945 | 19921009 |
| | | | JP 1992-271947 | 19921009 |
| | | | JP 1993-27646 | 19930121 |
| | | | US 1993-61240 | 19930517 |
| | | | US 1995-374998 | 19950118 |

L4 ANSWER 45 OF 45 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1992:637170 CAPLUS
 DOCUMENT NUMBER: 117:237170
 TITLE: Cathode active material for secondary
 nonaqueous-electrolyte **battery**
 INVENTOR(S): Tahara, Kensuke; Ishikawa, Hideki; Sakai, Tsugio
 PATENT ASSIGNEE(S): Seiko Electronic Components Ltd., Japan
 SOURCE: Eur. Pat. Appl., 32 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| EP 484187 | A2 | 19920506 | EP 1991-310178 | 19911104 |
| EP 484187 | A3 | 19920902 | | |
| EP 484187 | B1 | 19960207 | | |
| EP 484187 | B2 | 19991201 | | |
| R: DE, FR, GB | | | | |
| JP 05054889 | A2 | 19930305 | JP 1991-253921 | 19911001 |
| JP 3162437 | B2 | 20010425 | | |
| US 5286582 | A | 19940215 | US 1991-786431 | 19911101 |
| PRIORITY APPLN. INFO.: | | | JP 1990-298213 | A 19901102 |
| | | | JP 1990-405204 | A 19901221 |
| | | | JP 1990-405205 | A 19901221 |
| | | | JP 1991-92462 | A 19910423 |
| | | | JP 1991-107677 | A 19910513 |
| | | | JP 1991-139246 | A 19910611 |
| | | | JP 1991-253921 | A 19911001 |

| | | |
|----------------------|------------|---------|
| => file reg | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 49.64 | 67.53 |

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 provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2003 HIGHEST RN 514787-08-7
 DICTIONARY FILE UPDATES: 13 MAY 2003 HIGHEST RN 514787-08-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
 PROPERTIES for more information. See STNote 27, Searching Properties
 in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> s (0.01-2)/Li and (1-2)/Fe and 1/P and 4/O
      89785 (0.01-2)/LI
      677554 (1-2)/FE
      828392 1/P
      3066347 4/O
L5      297 (0.01-2)/LI AND (1-2)/FE AND 1/P AND 4/O
```

| | | |
|----------------------|------------|---------|
| => file caplus | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 17.28 | 84.81 |

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FILE COVERS 1907 - 14 May 2003 VOL 138 ISS 20
 FILE LAST UPDATED: 13 May 2003 (20030513/ED)

This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s 15

L6 353 L5

=> s l6 and cathode

147752 CATHODE

L7 113 L6 AND CATHODE

=> s l7 not l4

L8 89 L7 NOT L4

=> d l8 1-89 ibib

L8 ANSWER 1 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:118176 CAPLUS

DOCUMENT NUMBER: 138:156303

TITLE: Manufacture of **cathode** material for
secondary battery and the battery

INVENTOR(S): Okada, Shigeto; Yamaki, Junichi; Hatta, Naoki

PATENT ASSIGNEE(S): Mitsui Engineering & Shipbuilding Co., Ltd., Japan

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2003012899 | A1 | 20030213 | WO 2002-JP7779 | 20020731 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |

PRIORITY APPLN. INFO.: JP 2001-231538 A 20010731

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:97210 CAPLUS

DOCUMENT NUMBER: 138:156270

TITLE: Secondary lithium battery

INVENTOR(S): Kanzaki, Masao; Ukyo, Yoshio

PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories,
Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| JP 2003036889 | A2 | 20030207 | JP 2002-139900 | 20020515 |

PRIORITY APPLN. INFO.: JP 2001-145400 A 20010515

L8 ANSWER 3 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:40437 CAPLUS

DOCUMENT NUMBER: 138:109577
TITLE: Solid secondary lithium battery
INVENTOR(S): Ogata, Naoya; Sata, Tsutomu
PATENT ASSIGNEE(S): Torekion K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2003017121 | A2 | 20030117 | JP 2001-200782 | 20010702 |
| PRIORITY APPLN. INFO.: | | | JP 2001-200782 | 20010702 |

L8 ANSWER 4 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:40395 CAPLUS
DOCUMENT NUMBER: 138:92834
TITLE: Nonaqueous-electrolyte battery with aluminum or aluminum alloy anode
INVENTOR(S): Takami, Norio; Ishii, Haruyoshi
PATENT ASSIGNEE(S): Toshiba Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2003017058 | A2 | 20030117 | JP 2001-202128 | 20010703 |
| PRIORITY APPLN. INFO.: | | | JP 2001-202128 | 20010703 |

L8 ANSWER 5 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:40394 CAPLUS
DOCUMENT NUMBER: 138:92833
TITLE: Lithium vanadium mixed oxide and its manufacture for anode in secondary aqueous lithium battery
INVENTOR(S): Sasaki, Iwao; Ukyo, Yoshio; Nakano, Hideyuki; Kanzaki, Masao
PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2003017057 | A2 | 20030117 | JP 2001-201303 | 20010702 |
| PRIORITY APPLN. INFO.: | | | JP 2001-201303 | 20010702 |

L8 ANSWER 6 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:936890 CAPLUS
DOCUMENT NUMBER: 138:140005
TITLE: Preparation of iron phosphate cathode material of $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$ by hydrothermal reaction and thermal decomposition processes
AUTHOR(S): Sato, Mineo; Tajimi, Shigehisa; Okawa, Hirokazu; Uematsu, Kazuyoshi; Toda, Kenji

CORPORATE SOURCE: Department of Chemistry and Chemical Engineering,
Niigata University, Faculty of Engineering, Niigata,
950-2181, Japan
SOURCE: Solid State Ionics (2002), 152-153, 247-251
CODEN: SSIOD3; ISSN: 0167-2738
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:794447 CAPLUS
DOCUMENT NUMBER: 138:41938
TITLE: Electronically conductive phospho-olivines as lithium
storage electrodes
AUTHOR(S): Chung, Sung-Yoon; Bloking, Jason T.; Chiang, Yet-Ming
CORPORATE SOURCE: Department of Materials Science and Engineering,
Massachusetts Institute of Technology, Cambridge, MA,
02139, USA
SOURCE: Nature Materials (2002), 1(2), 123-128
CODEN: NMAACR; ISSN: 1476-1122
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:781946 CAPLUS
DOCUMENT NUMBER: 138:290280
TITLE: X-Ray Absorption Study of $\text{Li}_x\text{Mn}_y\text{Fe}_{1-y}\text{PO}_4$ (0 $\leq x \leq 1$, 0 $\leq y \leq 1$)
AUTHOR(S): Li, Guohua; Kudo, Yoshihiro; Liu, Kuang-Yu; Azuma,
Hideto; Tohda, Masayuki
CORPORATE SOURCE: Sony Corporation, Nishi Battery Laboratories,
Kanagawa, 243-0021, Japan
SOURCE: Journal of the Electrochemical Society (2002),
149(11), A1414-A1418
CODEN: JESOAN; ISSN: 0013-4651
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:734259 CAPLUS
DOCUMENT NUMBER: 137:265592
TITLE: secondary lithium battery
INVENTOR(S): Fujita, Shigeru; Akashi, Hiroyuki; Adachi, Momoe;
Shibamoto, Goro
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002279989 | A2 | 20020927 | JP 2001-77086 | 20010316 |
| PRIORITY APPLN. INFO.: | | | JP 2001-77086 | 20010316 |

L8 ANSWER 10 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:716669 CAPLUS
 DOCUMENT NUMBER: 137:250290
 TITLE: Cathode compositions and their use,
 particularly in batteries
 INVENTOR(S): Ravet, Nathalie; Armand, Michel
 PATENT ASSIGNEE(S): Universite de Montreal, Can.; Centre National de la
 Recherche Scientifique
 SOURCE: PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2002073716 | A2 | 20020919 | WO 2002-CA341 | 20020313 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRIORITY APPLN. INFO.: | | | CA 2001-2340798 | A 20010313 |

L8 ANSWER 11 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:693416 CAPLUS
 DOCUMENT NUMBER: 137:235203
 TITLE: Secondary lithium battery
 INVENTOR(S): Sasaki, Iwao; Ukyo, Yoshio; Nakano, Hideyuki; Kanzaki,
 Masao
 PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories,
 Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002260722 | A2 | 20020913 | JP 2001-53831 | 20010228 |
| PRIORITY APPLN. INFO.: | | | JP 2001-53831 | 20010228 |

L8 ANSWER 12 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:635102 CAPLUS
 DOCUMENT NUMBER: 138:58795
 TITLE: Research progress in cathode materials of
 Li-ion battery
 AUTHOR(S): Chen, Li-quan
 CORPORATE SOURCE: Lab for Solid State Ionic, Institute of Physics,
 Chinese Academy of Sciences, Beijing, 100080, Peop.
 Rep. China
 SOURCE: Dianchi (2002), 32(Suppl.), 6-8
 CODEN: DNCHEP; ISSN: 1001-1579
 PUBLISHER: Dianchi Zazhishe
 DOCUMENT TYPE: Journal

LANGUAGE: Chinese

L8 ANSWER 13 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:604575 CAPLUS

DOCUMENT NUMBER: 138:26782

TITLE: Reducing carbon in LiFePO_4/C composite electrodes to maximize specific energy, volumetric energy, and tap density

AUTHOR(S): Chen, Zhaohui; Dahn, J. R.

CORPORATE SOURCE: Department of Physics, Dalhousie University, Halifax, NS, B3H 3J5, Can.

SOURCE: Journal of the Electrochemical Society (2002), 149(9), A1184-A1189

CODEN: JESOAN; ISSN: 0013-4651

PUBLISHER: Electrochemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:600543 CAPLUS

DOCUMENT NUMBER: 138:207619

TITLE: New **cathode** materials for lithium secondary battery

AUTHOR(S): Takeda, Yasuo; Imanishi, Masayuki; Hirano, Atsushi

CORPORATE SOURCE: Dept. of Engineering, Mie University, Mie, Tsu, Kamihama, 514-8507, Japan

SOURCE: Materials Integration (2002), 15(6), 14-19

CODEN: MINTFB; ISSN: 1344-7858

PUBLISHER: Ti, Ai, Shi

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

L8 ANSWER 15 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:558477 CAPLUS

DOCUMENT NUMBER: 138:92665

TITLE: A neutron powder diffraction study of electrochemically lithiated $\text{R-Li}_{3+x}\text{Fe}_2(\text{PO}_4)_3$ for $x = 1.8$

AUTHOR(S): Eyob, Paulos; Andersson, Anna S.; Thomas, John O.

CORPORATE SOURCE: Department of Materials Chemistry, Angstrom Laboratory, Uppsala University, Uppsala, SE-751 21, Swed.

SOURCE: Journal of Materials Chemistry (2002), 12(8), 2343-2347

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 16 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:505613 CAPLUS

DOCUMENT NUMBER: 137:355365

TITLE: Optimized $\text{LiMnFe}_1\text{-yPO}_4$ as the **cathode** for lithium batteries

AUTHOR(S): Li, Guohua; Azuma, Hideto; Tohda, Masayuki

CORPORATE SOURCE: Nishi Battery Laboratories, Sony Corporation, Atsugi, 243-0021, Japan

SOURCE: Journal of the Electrochemical Society (2002), 149(6), A743-A747

CODEN: JESOAN; ISSN: 0013-4651

PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 17 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:501776 CAPLUS
DOCUMENT NUMBER: 137:313428
TITLE: Nanocomposite electrodes for advanced lithium
batteries: the LiFePO4 **cathode**
AUTHOR(S): Yang, Shoufeng; Song, Yanning; Zavalij, Peter Y.;
Whittingham, M. Stanley
CORPORATE SOURCE: Institute for Materials Research, Binghamton
University, Binghamton, NY, 13902-1600, USA
SOURCE: Materials Research Society Symposium Proceedings
(2002), 703(Nanophase and Nanocomposite Materials IV),
309-313
CODEN: MRSPDH; ISSN: 0272-9172
PUBLISHER: Materials Research Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 18 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:454726 CAPLUS
DOCUMENT NUMBER: 137:281757
TITLE: Olivine-type cathodes for lithium batteries
AUTHOR(S): Yamada, A.; Hosoya, M.; Chung, S. C.; Hinokuma, K.;
Kudo, Y.; Liu, K. Y.
CORPORATE SOURCE: Frontier Science Laboratories, Sony Corporation,
Yokohama, 240-0036, Japan
SOURCE: Ceramic Transactions (2002), 127(Materials for
Electrochemical Energy Conversion and Storage),
189-203
CODEN: CETREW; ISSN: 1042-1122
PUBLISHER: American Ceramic Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 19 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:453091 CAPLUS
DOCUMENT NUMBER: 137:235143
TITLE: A New Synthetic Route for Preparing LiFePO4 with
Enhanced Electrochemical Performance
AUTHOR(S): Prosini, Pier Paolo; Carewska, Maria; Scaccia,
Silvera; Wisniewski, Pawel; Passerini, Stefano;
Pasquali, Mauro
CORPORATE SOURCE: Advanced Energy Technologies, ENEA, C.R. Casaccia,
Rome, 00060, Italy
SOURCE: Journal of the Electrochemical Society (2002), 149(7),
A886-A890
CODEN: JESOAN; ISSN: 0013-4651
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 20 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:449608 CAPLUS

DOCUMENT NUMBER: 137:22389
 TITLE: Carbon-coated spinel-type Li₄Ti₅O₁₂ and metal-contg. Li₄Ti₅O₁₂ compositions as anodes for electrochemical generators
 INVENTOR(S): Zaghib, Karim
 PATENT ASSIGNEE(S): Hydro-Quebec, Can.; Gauthier, Michel; Brochu, Fernand; Guerfi, Abdelbast; Masse, Monique; Armand, Michel
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2002046101 | A2 | 20020613 | WO 2001-CA1714 | 20011203 |
| WO 2002046101 | A3 | 20020919 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 2002021410 | A5 | 20020618 | AU 2002-21410 | 20011203 |
| PRIORITY APPLN. INFO.: | | | CA 2000-2327370 | A 20001205 |
| | | | WO 2001-CA1714 | W 20011203 |

L8 ANSWER 21 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:447290 CAPLUS
 DOCUMENT NUMBER: 137:35475
 TITLE: Nonaqueous electrolyte battery
 INVENTOR(S): Goto, Shuji
 PATENT ASSIGNEE(S): Sony Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002170567 | A2 | 20020614 | JP 2000-369000 | 20001204 |
| PRIORITY APPLN. INFO.: | | | JP 2000-369000 | 20001204 |

L8 ANSWER 22 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:401372 CAPLUS
 DOCUMENT NUMBER: 137:172325
 TITLE: Reaction behavior of LiFePO₄ as a cathode material for rechargeable lithium batteries
 AUTHOR(S): Takahashi, Masaya; Tobishima, Shin-ichi; Takei, Koji; Sakurai, Yoji
 CORPORATE SOURCE: NTT Telecommunications Energy Laboratories, Ibaraki-ken, Tokai-mura, Naka-gun, 319-1193, Japan
 SOURCE: Solid State Ionics (2002), 148(3,4), 283-289
 CODEN: SSIOD3; ISSN: 0167-2738
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 23 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:388569 CAPLUS
 DOCUMENT NUMBER: 136:372280
 TITLE: Lithium iron phosphate grain for **cathode**,
 its manufacture, and secondary battery using it
 INVENTOR(S): Higuchi, Shoji; Kamigakinai, Toshikazu; Fukui,
 Toshimi; Kobayashi, Makoto
 PATENT ASSIGNEE(S): Kansai Research Institute, Inc., Japan; TDK
 Corporation
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002151082 | A2 | 20020524 | JP 2000-382950 | 20001110 |
| PRIORITY APPLN. INFO.: | | | JP 2000-382950 | 20001110 |

L8 ANSWER 24 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:372947 CAPLUS
 DOCUMENT NUMBER: 137:297251
 TITLE: A comparison of the electrode/electrolyte reaction at
 elevated temperatures for various Li-ion battery
 cathodes
 AUTHOR(S): MacNeil, D. D.; Lu, Zhonghua; Chen, Zhaohui; Dahn, J.
 R.
 CORPORATE SOURCE: Department of Chemistry, Dalhousie University,
 Halifax, NS, B3H 3J5, Can.
 SOURCE: Journal of Power Sources (2002), 108(1-2), 8-14
 CODEN: JPSODZ; ISSN: 0378-7753
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 25 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:368811 CAPLUS
 DOCUMENT NUMBER: 136:357523
 TITLE: **Cathode** active mass and battery using the
 active mass
 INVENTOR(S): Li, Guohua
 PATENT ASSIGNEE(S): Sony Corporation, Japan
 SOURCE: PCT Int. Appl., 28 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| WO 2002039523 | A1 | 20020516 | WO 2001-JP9747 | 20011107 |
| W: CA, CN, KR, MX, US | | | | |
| RW: DE, FI, FR, GB, SE | | | | |
| JP 2002151072 | A2 | 20020524 | JP 2000-342410 | 20001109 |
| US 2003064290 | A1 | 20030403 | US 2002-169454 | 20021007 |
| PRIORITY APPLN. INFO.: | | | JP 2000-342410 | A 20001109 |
| | | | WO 2001-JP9747 | W 20011107 |

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 26 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:327043 CAPLUS
DOCUMENT NUMBER: 137:281726
TITLE: Determination of the chemical diffusion coefficient of lithium in LiFePO₄
AUTHOR(S): Prosini, Pier Paolo; Lisi, Marida; Zane, Daniela; Pasquali, Mauro
CORPORATE SOURCE: Dipartimento ICMMPM, Facolta di Ingegneria, Universita di Roma "La Sapienza", Rome, Italy
SOURCE: Solid State Ionics (2002), 148(1,2), 45-51
CODEN: SSIOD3; ISSN: 0167-2738
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 27 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:294036 CAPLUS
DOCUMENT NUMBER: 136:312606
TITLE: Method of fabrication of high performance lithium or lithium ion batteries
INVENTOR(S): Dai, Dongli
PATENT ASSIGNEE(S): E.I. Dupont De Nemours and Company, USA
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2002031905 | A2 | 20020418 | WO 2001-US30892 | 20011003 |
| WO 2002031905 | A3 | 20021003 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| AU 2002011378 | A5 | 20020422 | AU 2002-11378 | 20011003 |
| US 2003003369 | A1 | 20030102 | US 2002-223963 | 20020820 |
| PRIORITY APPLN. INFO.: | | | US 2000-684206 | A 20001006 |
| | | | US 2000-199700P | P 20000426 |
| | | | US 2000-205027P | P 20000518 |
| | | | WO 2001-US30892 | W 20011003 |

OTHER SOURCE(S): MARPAT 136:312606

L8 ANSWER 28 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:293286 CAPLUS
DOCUMENT NUMBER: 136:312598
TITLE: Manufacture of cathode active mass and secondary nonaqueous electrolyte battery
INVENTOR(S): Hosoya, Mamoru; Fukushima, Gen
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002117831 | A2 | 20020419 | JP 2000-306879 | 20001005 |
| PRIORITY APPLN. INFO.: | | | JP 2000-306879 | 20001005 |

L8 ANSWER 29 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:292162 CAPLUS
DOCUMENT NUMBER: 136:312590
TITLE: Manufacture of **cathode** active mass and
nonaqueous electrolyte battery
INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Gen
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002117837 | A2 | 20020419 | JP 2000-305352 | 20001004 |
| PRIORITY APPLN. INFO.: | | | JP 2000-305352 | 20001004 |

L8 ANSWER 30 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:291865 CAPLUS
DOCUMENT NUMBER: 136:312584
TITLE: Method for preparation of **cathode** active
material for nonaqueous lithium secondary battery
INVENTOR(S): Sato, Atsushi; Kuyama, Junji; Fukushima, Yuzuru;
Hosoya, Mamoru
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| EP 1198019 | A2 | 20020417 | EP 2001-123899 | 20011005 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002117847 | A2 | 20020419 | JP 2000-308299 | 20001006 |
| CN 1348226 | A | 20020508 | CN 2001-130348 | 20010930 |
| US 2002106562 | A1 | 20020808 | US 2001-970573 | 20011004 |
| PRIORITY APPLN. INFO.: | | | JP 2000-308299 | A 20001006 |

L8 ANSWER 31 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:288922 CAPLUS
DOCUMENT NUMBER: 137:219425
TITLE: 7Li and 31P magic angle spinning nuclear magnetic
resonance of LiFePO4-type materials
AUTHOR(S): Tucker, Michael C.; Doeff, Marca M.; Richardson,
Thomas J.; Finones, Rita; Reimer, Jeffrey A.; Cairns,
Elton J.
CORPORATE SOURCE: Energy and Environmental Technologies Division, Ernest
Orlando Lawrence Berkeley National Laboratory and

SOURCE: Department of Chemical Engineering, University of California Berkeley, Berkeley, CA, 94720, USA
Electrochemical and Solid-State Letters (2002), 5(5), A95-A98
CODEN: ESLEF6; ISSN: 1099-0062
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 32 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:288805 CAPLUS
DOCUMENT NUMBER: 137:49637
TITLE: On the way to the optimization of $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$ positive electrode materials
AUTHOR(S): Morcrette, Mathieu; Wurm, Calin; Masquelier, Christian
CORPORATE SOURCE: Laboratoire de Reactivite et de Chimie des Solides, Amiens, 80039, Fr.
SOURCE: Solid State Sciences (2002), 4(2), 239-246
CODEN: SSSCFJ; ISSN: 1293-2558
PUBLISHER: Editions Scientifiques et Medicales Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 33 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:273042 CAPLUS
DOCUMENT NUMBER: 136:312520
TITLE: Lithium ion battery
INVENTOR(S): Kamigaito, Toshikazu; Doi, Motoyuki
PATENT ASSIGNEE(S): TDK Corporation, Japan; Kansai Research Institute Inc.
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002110221 | A2 | 20020412 | JP 2000-338286 | 20000929 |
| PRIORITY APPLN. INFO.: | | | JP 2000-338286 | 20000929 |

L8 ANSWER 34 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:256645 CAPLUS
DOCUMENT NUMBER: 136:297382
TITLE: Carbon-coated or carbon-crosslinked redox materials with transition metal-lithium oxide core for use as battery electrodes
INVENTOR(S): Armand, Michel; Gauthier, Michel; Magnan, Jean-Francois; Ravet, Nathalie
PATENT ASSIGNEE(S): Hydro-Quebec, Can.
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2002027824 | A1 | 20020404 | WO 2001-CA1350 | 20010921 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001093569 A5 20020408 AU 2001-93569 20010921
 PRIORITY APPLN. INFO.: CA 2000-2320661 A 20000926
 WO 2001-CA1350 W 20010921

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 35 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:256644 CAPLUS

DOCUMENT NUMBER: 136:297381

TITLE: Method for synthesis of carbon-coated redox materials
 with controlled size

INVENTOR(S): Armand, Michel; Gauhtier, Michel; Magnan,
 Jean-Francois; Ravet, Nathalie

PATENT ASSIGNEE(S): Hydro-Quebec, Can.

SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2002027823 | A1 | 20020404 | WO 2001-CA1349 | 20010921 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001093568 A5 20020408 AU 2001-93568 20010921
 PRIORITY APPLN. INFO.: CA 2000-2320661 A 20000926
 WO 2001-CA1349 W 20010921

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 36 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:253129 CAPLUS

DOCUMENT NUMBER: 136:281939

TITLE: Nonaqueous electrolyte battery **cathode**
 active material capable of reversibly doping/undoping
 lithium

INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

| | | | | |
|--|----|----------|----------------|------------|
| EP 1193787 | A2 | 20020403 | EP 2001-123181 | 20010927 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002110161 | A2 | 20020412 | JP 2000-301399 | 20000929 |
| US 2002114754 | A1 | 20020822 | US 2001-961895 | 20010924 |
| CN 1350341 | A | 20020522 | CN 2001-142556 | 20010929 |
| PRIORITY APPLN. INFO.: | | | JP 2000-301399 | A 20000929 |

L8 ANSWER 37 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:253128 CAPLUS
 DOCUMENT NUMBER: 136:281938
 TITLE: Nonaqueous electrolyte battery **cathode**
 active material capable of reversibly doping/undoping
 lithium
 INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru
 PATENT ASSIGNEE(S): Sony Corporation, Japan
 SOURCE: Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| EP 1193786 | A2 | 20020403 | EP 2001-123180 | 20010927 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002110163 | A2 | 20020412 | JP 2000-301401 | 20000929 |
| US 2002061274 | A1 | 20020523 | US 2001-965273 | 20010927 |
| CN 1349265 | A | 20020515 | CN 2001-142532 | 20010929 |
| PRIORITY APPLN. INFO.: | | | JP 2000-301401 | A 20000929 |

L8 ANSWER 38 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:253127 CAPLUS
 DOCUMENT NUMBER: 136:281937
 TITLE: Nonaqueous electrolyte battery with **cathode**
 active material capable of reversibly doping/undoping
 lithium
 INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru
 PATENT ASSIGNEE(S): Sony Corporation, Japan
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| EP 1193785 | A2 | 20020403 | EP 2001-122769 | 20010921 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002110164 | A2 | 20020412 | JP 2000-301402 | 20000929 |
| US 2002059719 | A1 | 20020523 | US 2001-956514 | 20010919 |
| CN 1346159 | A | 20020424 | CN 2001-138523 | 20010928 |
| PRIORITY APPLN. INFO.: | | | JP 2000-301402 | A 20000929 |

L8 ANSWER 39 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:253126 CAPLUS
 DOCUMENT NUMBER: 136:265826
 TITLE: Method for the preparation of **cathode** active
 material for a nonaqueous electrolyte battery

INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru
PATENT ASSIGNEE(S): Sony Corporation, Japan
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1193784 | A2 | 20020403 | EP 2001-122752 | 20010921 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002110165 | A2 | 20020412 | JP 2000-301403 | 20000929 |
| US 2002041998 | A1 | 20020411 | US 2001-961863 | 20010924 |
| CN 1349264 | A | 20020515 | CN 2001-142531 | 20010929 |
| PRIORITY APPLN. INFO.: | | | JP 2000-301403 | A 20000929 |

L8 ANSWER 40 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:253125 CAPLUS
DOCUMENT NUMBER: 136:265825
TITLE: Method for the preparation of **cathode** active material for a nonaqueous electrolyte battery
INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru
PATENT ASSIGNEE(S): Sony Corporation, Japan
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1193783 | A2 | 20020403 | EP 2001-122751 | 20010921 |
| EP 1193783 | A3 | 20030514 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002110162 | A2 | 20020412 | JP 2000-301400 | 20000929 |
| US 2002102459 | A1 | 20020801 | US 2001-961862 | 20010924 |
| CN 1346162 | A | 20020424 | CN 2001-137901 | 20010929 |
| PRIORITY APPLN. INFO.: | | | JP 2000-301400 | A 20000929 |

L8 ANSWER 41 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:196333 CAPLUS
DOCUMENT NUMBER: 136:404204
TITLE: A novel concept for the synthesis of an improved LiFePO₄ lithium battery **cathode**
AUTHOR(S): Croce, F.; D'Epifanio, A.; Hassoun, J.; Deptula, A.; Olczac, T.; Scrosati, B.
CORPORATE SOURCE: Dipartimento di Chimica, Universita "La Sapienza", Rome, 00185, Italy
SOURCE: Electrochemical and Solid-State Letters (2002), 5(3), A47-A50
CODEN: ESLEF6; ISSN: 1099-0062
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 42 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:193285 CAPLUS

DOCUMENT NUMBER: 136:234678
 TITLE: **Cathode** active materials, nonaqueous electrolyte batteries, and their manufacture
 INVENTOR(S): Yamaura, Kiyoshi
 PATENT ASSIGNEE(S): Sony Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002075368 | A2 | 20020315 | JP 2000-269035 | 20000905 |
| PRIORITY APPLN. INFO.: | | | JP 2000-269035 | 20000905 |

L8 ANSWER 43 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:184821 CAPLUS
 DOCUMENT NUMBER: 137:127446
 TITLE: Reactivity, stability and electrochemical behavior of lithium iron phosphate
 AUTHOR(S): Yang, Shoufeng; Song, Yanning; Zavalij, Peter Y.; Stanley Whittingham, M.
 CORPORATE SOURCE: Department of Chemistry, State University of New York at Binghamton, Institute for Materials Research, Binghamton, NY, 13902-1600, USA
 SOURCE: Electrochemistry Communications (2002), 4(3), 239-244
 CODEN: ECCMF9; ISSN: 1388-2481
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 44 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:169249 CAPLUS
 DOCUMENT NUMBER: 136:203096
 TITLE: Method for preparation of **cathode** active material for nonaqueous electrolyte battery
 INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru
 PATENT ASSIGNEE(S): Sony Corporation, Japan
 SOURCE: Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1184920 | A2 | 20020306 | EP 2001-120637 | 20010830 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002075364 | A2 | 20020315 | JP 2000-261277 | 20000830 |
| CN 1340869 | A | 20020320 | CN 2001-135562 | 20010830 |
| PRIORITY APPLN. INFO.: | | | JP 2000-261277 | A 20000830 |

L8 ANSWER 45 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:139063 CAPLUS
 DOCUMENT NUMBER: 136:170324
 TITLE: Lithium secondary batteries with NASICON-type **cathode** active materials
 INVENTOR(S): Fujiwara, Aiichiro; Shikoda, Masataka

PATENT ASSIGNEE(S): Toshiba Battery Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002056849 | A2 | 20020222 | JP 2000-240662 | 20000809 |
| PRIORITY APPLN. INFO.: | | | JP 2000-240662 | 20000809 |

L8 ANSWER 46 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:138998 CAPLUS
DOCUMENT NUMBER: 136:186643
TITLE: Nonaqueous electrolyte secondary battery
INVENTOR(S): Atsumi, Yoshinori; Yamamoto, Masahiro; Ohta, Yasuo
PATENT ASSIGNEE(S): Sony Corporation, Japan
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|----------|
| EP 1180811 | A2 | 20020220 | EP 2001-119842 | 20010816 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002134112 | A2 | 20020510 | JP 2001-228239 | 20010727 |
| PRIORITY APPLN. INFO.: | | | JP 2000-248672 A | 20000818 |
| | | | JP 2001-228239 A | 20010727 |

L8 ANSWER 47 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:47912 CAPLUS
DOCUMENT NUMBER: 136:105117
TITLE: Lithium iron oxide **cathode** active mass for secondary lithium battery, its manufacture, and the battery
INVENTOR(S): Kanzaki, Masao; Takeuchi, Yoji; Ukyo, Yoshio
PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002015735 | A2 | 20020118 | JP 2000-195894 | 20000629 |
| PRIORITY APPLN. INFO.: | | | JP 2000-195894 | 20000629 |

L8 ANSWER 48 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:5196 CAPLUS
DOCUMENT NUMBER: 136:281885
TITLE: A LiTi2O4-LiFePO4 novel lithium-ion polymer battery
AUTHOR(S): Persi, L.; Croce, F.; Scrosati, B.
CORPORATE SOURCE: Dipartimento di Chimica, Universita di Roma "La Sapienza", Rome, 00185, Italy
SOURCE: Electrochemistry Communications (2002), 4(1), 92-95

PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 49 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:796594 CAPLUS
 DOCUMENT NUMBER: 135:333335
 TITLE: **Cathode** active mass and batteries thereof
 INVENTOR(S): Katayama, Sadahiro; Inamasu, Norio
 PATENT ASSIGNEE(S): Yuasa Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2001307726 | A2 | 20011102 | JP 2000-122550 | 20000424 |
| PRIORITY APPLN. INFO.: | | | JP 2000-122550 | 20000424 |

L8 ANSWER 50 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:796403 CAPLUS
 DOCUMENT NUMBER: 135:346864
 TITLE: **Cathode** for nonaqueous electrolyte lithium ion battery
 INVENTOR(S): Yamada, Atsuo; Yamahira, Takayuki
 PATENT ASSIGNEE(S): Sony Corporation, Japan
 SOURCE: Eur. Pat. Appl., 26 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|----------|
| EP 1150368 | A2 | 20011031 | EP 2001-109919 | 20010424 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2001307730 | A2 | 20011102 | JP 2000-128998 | 20000425 |
| CA 2344981 | AA | 20011025 | CA 2001-2344981 | 20010425 |
| CN 1320976 | A | 20011107 | CN 2001-117211 | 20010425 |
| US 2002004169 | A1 | 20020110 | US 2001-842485 | 20010425 |
| PRIORITY APPLN. INFO.: | | | JP 2000-128998 A | 20000425 |

L8 ANSWER 51 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:779403 CAPLUS
 DOCUMENT NUMBER: 136:120989
 TITLE: Phase diagram of $\text{Li}_x(\text{MnyFe}_{1-y})\text{PO}_4$ (0 $\leq x, y \leq 1$)
 AUTHOR(S): Yamada, Atsuo; Kudo, Yoshihiro; Liu, Kuang-Yu
 CORPORATE SOURCE: Frontier Science Laboratories, Sony Corporation, Yokohama, 240-0036, Japan
 SOURCE: Journal of the Electrochemical Society (2001), 148(10), A1153-A1158
 CODEN: JESOAN; ISSN: 0013-4651
 PUBLISHER: Electrochemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 52 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:710111 CAPLUS
DOCUMENT NUMBER: 135:275341
TITLE: New lithium insertion electrode materials based on orthosilicate derivatives, electrochemical generators, and variable optical transmission devices having electrodes containing these materials
INVENTOR(S): Armand, Michel; Michot, Christophe; Ravet, Nathalie; Simoneau, Martin; Hovington, Pierre
PATENT ASSIGNEE(S): Hydro-Quebec, Can.; Centre National de la Recherche Scientifique (CNRS); Universite de Montreal
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2001266882 | A2 | 20010928 | JP 2000-117248 | 20000314 |
| PRIORITY APPLN. INFO.: | | | JP 2000-117248 | 20000314 |

L8 ANSWER 53 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:691570 CAPLUS
DOCUMENT NUMBER: 136:56310
TITLE: Approaching theoretical capacity of LiFePO4 at room temperature at high rates
AUTHOR(S): Huang, H.; Yin, S.-C.; Nazar, L. F.
CORPORATE SOURCE: Department of Chemistry, University of Waterloo, Waterloo, ON, N2L G61, Can.
SOURCE: Electrochemical and Solid-State Letters (2001), 4(10), A170-A172
CODEN: ESLEF6; ISSN: 1099-0062
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 54 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:673668 CAPLUS
DOCUMENT NUMBER: 135:213489
TITLE: Manufacture of cathode active mass and nonaqueous electrolyte batteries
INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Miyaki, Yukio; Fukushima, Gen
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2001250555 | A2 | 20010914 | JP 2000-65771 | 20000306 |
| PRIORITY APPLN. INFO.: | | | JP 2000-65771 | 20000306 |

L8 ANSWER 55 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:646013 CAPLUS
DOCUMENT NUMBER: 135:374007
TITLE: Large-scale lithium-ion batteries for
telecommunication power supplies
AUTHOR(S): Takahashi, Masaya; Takei, Koji; Hayashi, Katsuya;
Tobishima, Shinichi
CORPORATE SOURCE: Telecommun. Energy Lab., NTT, Japan
SOURCE: NTT R&D (2001), 50(8), 586-591
CODEN: NTTDEC; ISSN: 0915-2326
PUBLISHER: Denki Tsushin Kyokai
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Japanese

L8 ANSWER 56 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:611253 CAPLUS
DOCUMENT NUMBER: 135:306168
TITLE: Hydrothermal synthesis of lithium iron phosphate
cathodes
AUTHOR(S): Yang, S.; Zavalij, P. Y.; Stanley Whittingham, M.
CORPORATE SOURCE: Department of Chemistry, Binghamton University,
Institute for Materials Research, Binghamton, NY,
13902-1600, USA
SOURCE: Electrochemistry Communications (2001), 3(9), 505-508
CODEN: ECCMF9; ISSN: 1388-2481
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 57 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:607571 CAPLUS
DOCUMENT NUMBER: 135:333294
TITLE: Improved electrochemical performance of a
LiFePO₄-based composite cathode
AUTHOR(S): Prosini, P. P.; Zane, D.; Pasquali, M.
CORPORATE SOURCE: Facolta di Ingegneria, Dipartimento ICMMPM, Universita
di Roma 'La Sapienza', Rome, Italy
SOURCE: Electrochimica Acta (2001), 46(23), 3517-3523
CODEN: ELCAAV; ISSN: 0013-4686
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 58 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:546963 CAPLUS
DOCUMENT NUMBER: 135:291298
TITLE: A high-rate, long-life, lithium nanocomposite polymer
electrolyte battery
AUTHOR(S): Croce, F.; Fiory, F. Serraino; Persi, L.; Scrosati, B.
CORPORATE SOURCE: Dipartimento di Chimica, Universita "La Sapienza",
Rome, 00185, Italy
SOURCE: Electrochemical and Solid-State Letters (2001), 4(8),
A121-A123
CODEN: ESLEF6; ISSN: 1099-0062
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 59 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:546025 CAPLUS
 DOCUMENT NUMBER: 135:109741
 TITLE: Preparation of lithium-based electrochemically active materials for lithium batteries
 INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid
 PATENT ASSIGNEE(S): Valence Technology, Inc., USA
 SOURCE: PCT Int. Appl., 97 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|---|-----------------|----------|
| WO 2001054212 | A1 | 20010726 | WO 2000-US35302 | 20001222 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1252671 | A1 | 20021030 | EP 2000-993800 | 20001222 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| EP 1309021 | A2 | 20030507 | EP 2003-2687 | 20001222 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| US 2002039687 | A1 | 20020404 | US 2001-908480 | 20010718 |
| US 2003077514 | A1 | 20030424 | US 2002-304890 | 20021125 |
| PRIORITY APPLN. INFO.: | | | | |
| US 2000-484799 A1 20000118 EP 2000-993800 A3 20001222 WO 2000-US35302 W 20001222 | | | | |
| REFERENCE COUNT: | 16 | THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | |

L8 ANSWER 60 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:545615 CAPLUS
 DOCUMENT NUMBER: 135:109740
 TITLE: Preparation of lithium-containing materials for battery cathodes
 INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid; Swoyer, Jeffrey L.
 PATENT ASSIGNEE(S): Valence Technology, Inc., USA
 SOURCE: PCT Int. Appl., 94 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 2001053198 | A1 | 20010726 | WO 2000-US35438 | 20001222 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, | | | | |

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 6528033 B1 20030304 US 2000-484919 20000118
 EP 1252093 A1 20021030 EP 2000-989532 20001222
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2002086214 A1 20020704 US 2001-1376 20011019
 PRIORITY APPLN. INFO.: US 2000-484919 A1 20000118
 WO 2000-US35438 W 20001222
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 61 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:526735 CAPLUS
 DOCUMENT NUMBER: 135:259711
 TITLE: Reaction mechanism of the olivine-type Lix
 (Mn_{0.6}Fe_{0.4})PO₄ (0 .ltoreq. x .ltoreq. 1)
 AUTHOR(S): Yamada, Atsuo; Kudo, Yoshihiro; Liu, Kuang-Yu
 CORPORATE SOURCE: Technical Support Center, Frontier Science
 Laboratories, Yokohama, 240-0036, Japan
 SOURCE: Journal of the Electrochemical Society (2001), 148(7),
 A747-A754
 CODEN: JESOAN; ISSN: 0013-4651
 PUBLISHER: Electrochemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 62 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:523697 CAPLUS
 DOCUMENT NUMBER: 135:109707
 TITLE: Nonaqueous electrolyte secondary batteries having high
 capacity
 INVENTOR(S): Yoshizawa, Hiroshi; Shirane, Takayuki; Nitta,
 Yoshiaki; Okamura, Kazuhiro
 PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| JP 2001196059 | A2 | 20010719 | JP 1999-354328 | 19991214 |
| US 6440606 | B1 | 20020827 | US 2000-699636 | 20001030 |
| US 2002192551 | A1 | 20021219 | US 2002-194032 | 20020712 |
| PRIORITY APPLN. INFO.: | | | JP 1999-309306 | A 19991029 |
| | | | JP 1999-354328 | A 19991214 |
| | | | US 2000-699636 | A3 20001030 |

L8 ANSWER 63 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:498313 CAPLUS
 DOCUMENT NUMBER: 135:139793
 TITLE: Characterization of LiFePO₄ as the **cathode**
 material for rechargeable lithium batteries
 AUTHOR(S): Takahashi, M.; Tobishima, S.; Takei, K.; Sakurai, Y.
 CORPORATE SOURCE: NTT Telecommunications Energy Laboratories,
 Ibaraki-ken, Naka-gun, Tokai-mura, 319-1193, Japan
 SOURCE: Journal of Power Sources (2001), 97-98, 508-511
 CODEN: JPSODZ; ISSN: 0378-7753
 PUBLISHER: Elsevier Science S.A.
 DOCUMENT TYPE: Journal

LANGUAGE: English
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 64 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:498312 CAPLUS
DOCUMENT NUMBER: 135:275261
TITLE: Electroactivity of natural and synthetic triphylite
AUTHOR(S): Ravet, N.; Chouinard, Y.; Magnan, J. F.; Besner, S.;
Gauthier, M.; Armand, M.
CORPORATE SOURCE: Departement de Chimie, Universite de Montreal,
Montreal, QC, Can.
SOURCE: Journal of Power Sources (2001), 97-98, 503-507
CODEN: JPSODZ; ISSN: 0378-7753
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 65 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:498311 CAPLUS
DOCUMENT NUMBER: 135:275260
TITLE: The source of first-cycle capacity loss in LiFePO₄
AUTHOR(S): Andersson, A. S.; Thomas, J. O.
CORPORATE SOURCE: Angstrom Laboratory, Materials Chemistry, Uppsala
University, Uppsala, SE-751 21, Swed.
SOURCE: Journal of Power Sources (2001), 97-98, 498-502
CODEN: JPSODZ; ISSN: 0378-7753
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 66 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:435589 CAPLUS
DOCUMENT NUMBER: 138:224054
TITLE: Influence of the structure on the electrochemical
performance of lithium transition metal phosphates as
cathodic materials in rechargeable lithium batteries:
a new high-pressure form of LiMPO₄ (M = Fe and Ni).
[Erratum to document cited in CA135:63689]
AUTHOR(S): Garcia-Moreno, O.; Alvarez-Vega, M.; Garcia-Alvarado,
F.; Garcia-Jaca, J.; Gallardo-Amores, J. M.; Sanjuan,
M. L.; Amador, U.
CORPORATE SOURCE: Departamento de Quimica Inorganica y Materiales
Facultad de Ciencias Experimentales y Tecnicas,
Universidad San Pablo-CEU, Madrid, 28668, Spain
SOURCE: Chemistry of Materials (2001), 13(7), 2455
CODEN: CMATEX; ISSN: 0897-4756
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

L8 ANSWER 67 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:280643 CAPLUS
DOCUMENT NUMBER: 134:283304
TITLE: Nonaqueous electrolyte batteries
INVENTOR(S): Yamada, Atsuo; Horie, Takeshi; Yamada, Shinichiro;
Noda, Kazuhiro
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2001110455 | A2 | 20010420 | JP 1999-289782 | 19991012 |
| PRIORITY APPLN. INFO.: | | | JP 1999-289782 | 19991012 |

L8 ANSWER 68 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:280615 CAPLUS
DOCUMENT NUMBER: 134:298399
TITLE: Cathode active mass containing lithium iron phosphate and secondary lithium battery using it
INVENTOR(S): Takahashi, Masaya; Tobishima, Shinichi; Takei, Koji; Sakurai, Yoji
PATENT ASSIGNEE(S): Nippon Telegraph and Telephone Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2001110414 | A2 | 20010420 | JP 1999-282445 | 19991004 |
| PRIORITY APPLN. INFO.: | | | JP 1999-282445 | 19991004 |

L8 ANSWER 69 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:280346 CAPLUS
DOCUMENT NUMBER: 134:268841
TITLE: Cathode activator for lithium secondary battery
INVENTOR(S): Honbo, Kyoko; Gotoh, Akihiro; Kasai, Masahiro; Muranaka, Yasushi; Hotta, Yoshiji
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|--|-----------------|------------|
| EP 1093172 | A1 | 20010418 | EP 2000-121347 | 20001010 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2001110421 | A2 | 20010420 | JP 1999-291945 | 19991014 |
| US 6458488 | B1 | 20021001 | US 2000-689797 | 20001013 |
| PRIORITY APPLN. INFO.: | | | JP 1999-291945 | A 19991014 |
| REFERENCE COUNT: | 2 | THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | |

L8 ANSWER 70 OF 89 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:260632 CAPLUS
DOCUMENT NUMBER: 135:63689
TITLE: Influence of the structure on the electrochemical performance of lithium transition metal phosphates as cathodic materials in rechargeable lithium batteries: a new high-pressure form of LiMPO₄ (M = Fe and Ni)
AUTHOR(S): Garcia-Moreno, O.; Alvarez-Vega, M.; Garcia-Alvarado,

F.; Garcia-Jaca, J.; Gallardo-Amores, J. M.; Sanjuan, M. L.; Amador, U.
 CORPORATE SOURCE: Departamento de Quimica Inorganica y Materiales
 Facultad de Ciencias Experimentales y Tecnicas,
 SOURCE: Universidad San Pablo-CEU, Madrid, 28668, Spain
 Chemistry of Materials (2001), 13(5), 1570-1576
 CODEN: CMATEX; ISSN: 0897-4756
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 71 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:222924 CAPLUS
 DOCUMENT NUMBER: 134:329012
 TITLE: Optimized LiFePO4 for lithium battery cathodes
 AUTHOR(S): Yamada, A.; Chung, S. C.; Hinokuma, K.
 CORPORATE SOURCE: Frontier Science Laboratories, Sony Corporation,
 Yokohama, 240-0036, Japan
 SOURCE: Journal of the Electrochemical Society (2001), 148(3),
 A224-A229
 CODEN: JESOAN; ISSN: 0013-4651
 PUBLISHER: Electrochemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 72 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:221503 CAPLUS
 DOCUMENT NUMBER: 135:35141
 TITLE: Lithium insertion into rhombohedral Li3Fe2(PO4)3
 AUTHOR(S): Andersson, A. S.; Kalska, B.; Eyob, P.; Aernout, D.;
 Haggstrom, L.; Thomas, J. O.
 CORPORATE SOURCE: Angstrom Laboratory, Inorganic Chemistry, Uppsala
 University, Uppsala, SE-751 21, Swed.
 SOURCE: Solid State Ionics (2001), 140(1,2), 63-70
 CODEN: SSIOD3; ISSN: 0167-2738
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 73 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2000:739719 CAPLUS
 DOCUMENT NUMBER: 133:298822
 TITLE: Synthesis of LiFePO4 and manufacture of nonaqueous
 electrolyte batteries
 INVENTOR(S): Li, Guohua; Yamada, Atsuo
 PATENT ASSIGNEE(S): Sony Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2000294238 | A2 | 20001020 | JP 1999-99409 | 19990406 |
| PRIORITY APPLN. INFO.: | | | JP 1999-99409 | 19990406 |

L8 ANSWER 74 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2000:71270 CAPLUS
 DOCUMENT NUMBER: 132:125274
 TITLE: Thermal stability of LiFePO₄-based cathodes
 AUTHOR(S): Andersson, Anna S.; Thomas, John O.; Kalska, Beata; Haggstrom, Lennart
 CORPORATE SOURCE: Department of Inorganic Chemistry Angstrom Laboratory, Uppsala University, Uppsala, SE-751 21, Swed.
 SOURCE: Electrochemical and Solid-State Letters (2000), 3(2), 66-68
 CODEN: ESLEF6; ISSN: 1099-0062
 PUBLISHER: Electrochemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 75 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:745717 CAPLUS
 DOCUMENT NUMBER: 132:38039
 TITLE: Supercapacitors and batteries
 AUTHOR(S): Goodenough, J. B.; Lee, Hee Y.; Manivannan, V.
 CORPORATE SOURCE: Texas Materials Institute, ETC 9.102, University of Texas at Austin, Austin, TX, 78712-1063, USA
 SOURCE: Materials Research Society Symposium Proceedings (1999), 548(Solid State Ionics V), 655-665
 CODEN: MRSPDH; ISSN: 0272-9172
 PUBLISHER: Materials Research Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 76 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:307887 CAPLUS
 DOCUMENT NUMBER: 130:314395
 TITLE: New lithium insertion electrode materials based on tetraoxoanions derivatives with olivine structure
 INVENTOR(S): Simoneau, Martin; Armand, Michel; Choquette, Yves; Zaghib, Karim
 PATENT ASSIGNEE(S): Hydro-Quebec, Can.
 SOURCE: Can. Pat. Appl., 5 pp.
 CODEN: CPXXEB
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| CA 2200998 | AA | 19980925 | CA 1997-2200998 | 19970325 |
| PRIORITY APPLN. INFO.: | | | CA 1997-2200998 | 19970325 |

L8 ANSWER 77 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:131181 CAPLUS
 DOCUMENT NUMBER: 130:211706
 TITLE: Lithium metal phosphate cathodes for Li secondary batteries
 AUTHOR(S): Butt, G. P.; Sammes, N. M.; Yamamoto, O.; Takeda, Y.; Imanishi, N.
 CORPORATE SOURCE: Department Technology, University Waikato, Hamilton, N. Z.
 SOURCE: Journal of the Australasian Ceramic Society (1998), 34(1), 60-65

PUBLISHER: CODEN: JAUSEL; ISSN: 1018-6689
 DOCUMENT TYPE: Australasian Ceramic Society
 LANGUAGE: Journal
 REFERENCE COUNT: English
 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 78 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:791699 CAPLUS
 DOCUMENT NUMBER: 130:54723
 TITLE: Cathodes for lithium-ion batteries: some comparisons
 AUTHOR(S): Goodenough, John B.; Manivannan, Venkatesan
 CORPORATE SOURCE: Texas Materials Institute, University of Texas at
 Austin, Austin, TX, 78712-1063, USA
 SOURCE: Denki Kagaku oyobi Kogyo Butsuri Kagaku (1998),
 66(12), 1173-1181
 CODEN: DKOKAZ; ISSN: 0366-9297
 PUBLISHER: Denki Kagakkai
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 79 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:509379 CAPLUS
 DOCUMENT NUMBER: 129:191547
 TITLE: Nonaqueous-electrolyte lithium secondary battery
 having high discharge capacity
 INVENTOR(S): Nagata, Mikito; Karril, Amin; Tsukamoto, Kotobuki
 PATENT ASSIGNEE(S): Japan Storage Battery Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 10208730 | A2 | 19980807 | JP 1997-25985 | 19970124 |
| PRIORITY APPLN. INFO.: | | | JP 1997-25985 | 19970124 |

L8 ANSWER 80 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:404670 CAPLUS
 DOCUMENT NUMBER: 129:97673
 TITLE: Characteristics of 3D framework cathodes with (XO₄)ⁿ⁻
 polyanions
 AUTHOR(S): Okada, S.; Arai, H.; Asakura, K.; Sakurai, Y.; Yamaki,
 J.; Nanjundaswamy, K. S.; Padhi, A. K.; Masquelier,
 C.; Goodenough, J. B.
 CORPORATE SOURCE: NTT Integrated Information and Energy Systems
 Laboratories, Ibaraki, 319-11, Japan
 SOURCE: Progress in Batteries & Battery Materials (1997), 16,
 302-308
 CODEN: PBBMEF; ISSN: 1099-4467
 PUBLISHER: ITE-JEC Press Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 81 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:221666 CAPLUS
 DOCUMENT NUMBER: 129:20826

TITLE: New **cathode** materials for rechargeable lithium batteries: the 3-D framework structures $\text{Li}_3\text{Fe}_2(\text{XO}_4)_3$ (X = P, As)

AUTHOR(S): Masquelier, C.; Padhi, A. K.; Nanjundaswamy, K. S.; Goodenough, J. B.

CORPORATE SOURCE: Center for Materials Science and Engineering, University of Texas at Austin, Austin, TX, 78712-1063, USA

SOURCE: Journal of Solid State Chemistry (1998), 135(2), 228-234
CODEN: JSSCBI; ISSN: 0022-4596

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 82 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:197714 CAPLUS

DOCUMENT NUMBER: 128:232794

TITLE: Lithium-containing, lithium-intercalating phosphates and their use as electrode material in secondary lithium-ion battery

INVENTOR(S): Barker, Jeremy; Saidi, Mohamed-Yazid

PATENT ASSIGNEE(S): Valence Technology, Inc., USA; Barker, Jeremy; Saidi, Mohamed-Yazid

SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| WO 9812761 | A1 | 19980326 | WO 1997-US15544 | 19970904 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| US 5871866 | A | 19990216 | US 1996-717979 | 19960923 |
| AU 9744102 | A1 | 19980414 | AU 1997-44102 | 19970904 |
| EP 931361 | A1 | 19990728 | EP 1997-942393 | 19970904 |
| EP 931361 | B1 | 20011205 | | |
| R: DE, ES, FR, GB, IT, IE | | | | |
| JP 2001500665 | T2 | 20010116 | JP 1998-514693 | 19970904 |
| EP 1093174 | A1 | 20010418 | EP 2001-200220 | 19970904 |
| R: DE, ES, FR, GB, IT, IE | | | | |
| ES 2169425 | T3 | 20020701 | ES 1997-942393 | 19970904 |
| KR 2000036230 | A | 20000626 | KR 1999-702302 | 19990318 |
| HK 1023850 | A1 | 20020823 | HK 2000-100559 | 20000128 |
| US 2001021472 | A1 | 20010913 | US 2001-776843 | 20010205 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | US 1996-717979 | A1 19960923 |
| | | | EP 1997-942393 | A3 19970904 |
| | | | WO 1997-US15544 | W 19970904 |
| | | | US 1998-204944 | A1 19981203 |

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 83 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:718093 CAPLUS
 DOCUMENT NUMBER: 128:5716
 TITLE: Cathode materials for secondary alkali metal-ion and lithium-ion batteries
 INVENTOR(S): Goodenough, John B.; Padhi, Akshaya; Nanjundaswamy, K. S.; Masquelier, Christian
 PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA
 SOURCE: PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| WO 9740541 | A1 | 19971030 | WO 1997-US6671 | 19970423 |
| W: CA, JP | | | | |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| EP 904607 | A1 | 19990331 | EP 1997-923437 | 19970423 |
| R: DE, FR, GB, IT | | | | |
| JP 2000509193 | T2 | 20000718 | JP 1997-538259 | 19970423 |
| PRIORITY APPLN. INFO.: | | | US 1996-16060P | P 19960423 |
| | | | US 1996-32346P | P 19961204 |
| | | | WO 1997-US6671 | W 19970423 |

L8 ANSWER 84 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1997:469779 CAPLUS
 DOCUMENT NUMBER: 127:97562
 TITLE: Cathode active mass for lithium secondary batteries and the batteries
 INVENTOR(S): Hikuma, Koichiro
 PATENT ASSIGNEE(S): Sony Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 09171827 | A2 | 19970630 | JP 1995-350114 | 19951221 |
| JP 3319258 | B2 | 20020826 | | |
| PRIORITY APPLN. INFO.: | | | JP 1995-350114 | 19951221 |

L8 ANSWER 85 OF 89 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1997:399650 CAPLUS
 DOCUMENT NUMBER: 127:37234
 TITLE: Nonaqueous electrolyte secondary batteries with alkali metal-contg. iron mixed oxide cathodes
 INVENTOR(S): Okada, Shigeto; Arai, So; Masashiro, Takahisa; Otsuka, Hideaki; Sakurai, Yoji; Yamaki, Junichi
 PATENT ASSIGNEE(S): Nippon Telegraph and Telephone Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 09134725 | A2 | 19970520 | JP 1995-311699 | 19951107 |

L8 ANSWER 86 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:305747 CAPLUS

DOCUMENT NUMBER: 126:345317

TITLE: Phospho-olivines as positive-electrode materials for rechargeable lithium batteries

AUTHOR(S): Padhi, A. K.; Nanjundaswamy, K. S.; Goodenough, J. B.

CORPORATE SOURCE: Center for Materials Science and Engineering, The University of Texas at Austin, Austin, TX, 78712-1063, USA

SOURCE: Journal of the Electrochemical Society (1997), 144(4), 1188-1194

CODEN: JESOAN; ISSN: 0013-4651

PUBLISHER: Electrochemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 87 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:703028 CAPLUS

DOCUMENT NUMBER: 126:9975

TITLE: $\text{Li}_3\text{Fe}_2(\text{XO}_4)_3$, (X = P, As): Three framework structures as hosts for the reversible insertion of lithium

AUTHOR(S): Masquelier, C.; Padhi, A. K.; Nanjundaswamy, K. S.;

Okada, S.; Goodenough, J. B.

CORPORATE SOURCE: Center Materials Science and Engineering, University Texas, Austin, TX, 78712-1063, USA

SOURCE: Proceedings of the Power Sources Conference (1996), 37th, 188-191

CODEN: PPOCFD

PUBLISHER: National Technical Information Service

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 88 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:703026 CAPLUS

DOCUMENT NUMBER: 126:20866

TITLE: Lithium intercalation into NASICON [Na^+ superionic conductor]-type mixed phosphates: $\text{TiNb}(\text{PO}_4)_3$ $\text{LiFeNb}(\text{PO}_4)_3$ and $\text{Li}_2\text{FeTi}(\text{PO}_4)_3$

AUTHOR(S): Padhi, A. K.; Nanjundaswamy, K. S.; Masquelier, C.;

Goodenough, J. B.

CORPORATE SOURCE: Center Materials Science and Engineering, University Texas, Austin, TX, 78712-1063, USA

SOURCE: Proceedings of the Power Sources Conference (1996), 37th, 180-185

CODEN: PPOCFD

PUBLISHER: National Technical Information Service

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 89 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:122498 CAPLUS

DOCUMENT NUMBER: 124:207044

TITLE: $\text{Fe}_2(\text{SO}_4)_3$ as a **cathode** material for rechargeable lithium batteries

AUTHOR(S): Okada, S.; Nanjundaswamy, K. S.; Manthiram, A.;

Goodenough, J. B.; Ohtsuka, H.; Arai, H.; Yamaki, J.

CORPORATE SOURCE: Center Materials Science & Engineering, University Texas, Austin, TX, USA

SOURCE: Proceedings of the Power Sources Conference (1994), 36th, 110-113

CODEN: PPOCFD

PUBLISHER: U.S. Army Research Laboratory, Electronics & Power

DOCUMENT TYPE:
LANGUAGE:

Sources Directorate, Power Sources Division
Journal
English